

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Pella Corporation 102 Main Street Pella, IA 50219

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "350 HurricaneShield® 4½" Vinyl" Outswing White PVC Casement Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. PELL0027, titled "Series 350 4½" Vinyl Casement Window - Impact", sheets 1 through 13 of 13, dated 01/04/13, with revision B dated 09/28/15, prepared by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami–Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 13-0114.07 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.

MIAMIDADE COUNTY
APPROVED

10/29/15

NOA No. 15-0401.05 Expiration Date: July 04, 2018 Approval Date: November 05, 2015 Page 1

Pella Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

- 1. Manufacturer's die drawings and sections. (Submitted under previous NOA No. 13-0114.07)
- 2. Drawing No. PELL0027, titled "Series 350 4-½" Vinyl Casement Window Impact", sheets 1 through 13 of 13, dated 01/04/13, prepared by PTC Product Design Group, LLC, revision "B" dated 09/28/15, prepared by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P. E.

B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of a series 350 vinyl casement window, prepared by Element Materials Technology, Des Moines, Test Report No. **ESP010280P.Dade.Rev**, dated 07/20/12, revised on 05/01/13, signed and sealed by Jason R. Steen, P.E.

(Submitted under previous NOA No. 13-0114.07)

C. CALCULATIONS

- 1. Anchor verification calculations and structural analysis, complying with **FBC** 5th **Edition (2014)**, dated 03/06/15 and revised on 09/28/15, prepared by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P.E.
- 2. Glazing complies with ASTM E1300-09

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 14-0916.10 issued to Kuraray America, Inc. for their "Butacite® PVB Glass Interlayer" dated 04/25/15, expiring on 12/11/16.
- 2. Notice of Acceptance No. 12-1017.02 issued to Quanex Building Products, Inc. for "White Rigid PVC Exterior Extrusions for Windows and Doors" dated 02/07/13, expiring on 12/26/16.
- 3. Notice of Acceptance No. 13-0425.15 issued to Quanex Building Products, Inc. for "Antique Bronze Super Coated White Rigid PVC Exterior Extrusions for Windows and Doors" dated 06/20/13, expiring on 12/26/16.

Manuel Perez, P.E. Product Control Examiner NOA No. 15-0401.05

Expiration Date: July 04, 2018 Approval Date: November 05, 2015

Pella Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

- 1. Statement letter of conformance, complying with **FBC** 5th **Edition** (2014), and of no financial interest, dated March 24, 2015, issued by Al-Farooq Corporation, signed and sealed by Robert J. Amoruso, P.E.
- 2. Laboratory compliance letter for Test Report No. ESP010280P.Dade.Rev, issued by Element Materials Technology Des Moines, dated 07/20/12, signed and sealed by Jason R. Steen, P.E.

(Submitted under previous NOA No. 13-0114.07)

3. Proposal No. 12-1088 issued by Product Control, dated 07/30/12, signed by Jaime D. Gascon, P. E.

(Submitted under previous NOA No. 13-0114.07)

G. OTHERS

1. Notice of Acceptance No. 13-0114.07, issued to Pella Corporation for their Series "350 HurricaneShield" 4½" Vinyl" Outswing White PVC Casement Window – L.M.I., approved on 07/04/13 and expiring on 07/04/18.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0401.05
Expiration Date: July 04, 2018
Approval Date: November 05, 2015

PELLA CORPORATION

SERIES 350 4-1/2" VINYL CASEMENT WINDOW - IMPACT

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

- 1. THIS PRODUCT HAS BEEN TESTED, EVALUATED AND DESIGNED TO THE DESIGN PRESSURE(S) STATED HEREIN AS FOLLOWS.
 1.1. IN COMPLIANCE WITH THE 5TH EDITION (2014) FLORIDA BUILDING CODE BUILDING AND RESIDENTIAL VOLUMES.
- 1.2. PERFORMANCE STANDARDS:
- 1.2.1. TAS 201-94, LARGE MISSILE IMPACT
- 1.2.2. TAS-202-94
- 1.2.3. TAS 203-94
- 2. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT NO. ESP010280P.DADE, DATED JULY 20, 2012 AND ASSOCIATED LABORATORY DRAWINGS BY ELEMENT MATERIALS TECHNOLOGY, DES MOINES, IA. TESTING WAS CONDUCTED TO TAS 201-94. TAS 202-94 AND TAS 203-94.
- 3. THIS PRODUCT EVALUATION DOCUMENT IS FOR USE IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 4. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE / MASONRY, 2X FRAMING AND METAL FRAMING SUBSTRATES AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
- 5. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
- 6. WHEN INSTALLED IN LOCATIONS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, THE FOLLOWING IMPACT PROTECTIVE REQUIREMENTS ARE MET:
- 6.1. HIGH VELOCITY HURRICANE ZONE (HVHZ):
- 6.1.1. LARGE MISSILE IMPACT REQUIREMENTS AT HEIGHTS UP TO 30 FEET ABOVE GRADE:
- 6.1.1.1. THESE WINDOWS MEET LARGE MISSILE IMPACT REQUIREMENTS OF THE 5TH EDITION (2014) FBC AND DO NOT REQUIRE USE OF AN APPROVED HVHZ IMPACT PROTECTIVE SYSTEM. SEE NOTE 3 ON SHEET 8 OF 13.
- 6.1.2. SMALL MISSILE IMPACT REQUIREMENTS AT HEIGHTS EXCEEDING 30 FEET ABOVE GRADE:
- 6.1.2.1. THESE WINDOWS MEET SMALL MISSILE IMPACT REQUIREMENTS OF THE 5TH EDITION (2014) FBC WHEN GLAZED ON THE EXTERIOR USING SAFETY GLAZING AND DO NOT REQUIRE USE OF AN APPROVED HVHZ IMPACT PROTECTIVE SYSTEM. SEE NOTE 4 ON SHEET 8 OF 13.
- 6.2. WINDBORNE DEBRIS AREAS OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (NON-HVHZ):
- 6.2.1. WHEN INSTALLED IN LOCATIONS WHERE NON-HVHZ WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, THIS PRODUCT DOES NOT REQUIRE USE OF AN APPROVED IMPACT PROTECTIVE SYSTEM.
- 7. SITE CONDITIONS NOT COVERED IN THIS PRODUCT EVALUATION DOCUMENT ARE SUBJECT TO ADDITIONAL ENGINEERING ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

8. MATERIALS:

- 8.1. WINDOW FRAME MATERIAL: VINYL (PVC) PER QUANEX BUILDING PRODUCTS NOA NO. 12-1017.02
- 8.2. LAMINATED GLAZING INTERLAYER PER MIAMI-DADE NOTICE OF ACCEPTANCE (NOA).
- 8.2.1. KURARAY BUTACITE PVB GLASS INTERLAYER MATERIAL PER NOA NO. 13-0129.27.
- 9. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-09a.
- 10. DESIGNATION "X" STANDS FOR THE FOLLOWING OPERABLE SASH.
- 11. THESE DRAWINGS CERTIFY THE WINDOW INSTALLATION ONLY. WATER PROOFING OF THE INSTALLED WINDOW IS NOT PART OF THIS INSTALLATION CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER AND/OR THE INSTALLER.

SEE SHEET 2 FOR DESIGN PRESSURES.

INSTALLATION NOTES:

- PRODUCT ANCHORS SHALL BE AS DESIGNATED AND LOCATED AS SHOWN IN THIS PRODUCT EVALUATION DOCUMENT. ANCHOR EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING.
- 2. SEE <u>INSTALLATION ANCHOR SCHEDULE</u> ON SHEET 2 FOR TYPE AND GRADE OF ANCHOR, AND/OR MANUFACTURER'S ANCHOR SPECIFICATIONS, INCLUDING MINIMUM NOMINAL SIZE, MINIMUM EMBEDMENT INTO SUBSTRATE AND MINIMUM EDGE DISTANCES.
- 2.1. EDGE DISTANCES SHALL BE MEASURED FROM CENTERLINE OF ANCHOR TO EDGE OF STRUCTURAL SUBSTRATE EITHER TO THE INTERIOR OR EXTERIOR OF THE FENESTRATION PRODUCT.
- 2.2. MINIMUM EMBEDMENT SHALL BE BASED ON PENETRATION INTO MAIN WIND FORCE RESISTING SYSTEM SUBSTRATE.
- 3. SEE SHEETS 5. 6 and 7 FOR SPECIFIC ANCHOR INSTALLATION DETAILS.
- 4, ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- 5. THE NUMBER OF INSTALLATION ANCHORS IS BASED ON THE MAXIMUM END DISTANCE (ED) AND THE MAXIMUM ON CENTER (O.C.) SPACING PLACEMENT OF ANCHORS IN ACCORDANCE WITH THE TABLES ON SHEET 2. END DISTANCES AND O.C. SPACINGS LESS THAN THAT SHOWN IN THE TABLES ON SHEET 2 ARE ACCEPTABLE.
- 5.1. SEE ADDITIONAL NOTES ON SHEET 2.
- MAXIMUM ALLOWABLE SHIM THICKNESS IS 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF WOOD COMPOSITE, HIGH DENSITY PLASTIC OR SIMILAR LOAD BEARING MATERIAL.
 - 1. FOR BLOCK, FIN & FLANGE FRAME INSTALLATIONS, SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR.
- 7. FOR CONCRETE BLOCK APPLICATIONS DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS.
- 8. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED IN THE INSTALLATION ANCHOR SCHEDULE ON SHEET 2.

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2	ANCHOR SCHEDULES AND DP CHART
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5 - 7	INSTALLATION SECTIONS
8	GLAZING DETAIL AND GLAZING NOTES
9	BILL OF MATERIALS
10	VERTICAL CROSS SECTION
11	HORIZONTAL CROSS SECTION
12	COMPONENT SECTIONS
13	INSTALLATION CLIP DETAIL AND CORNER CONSTRUCTION

PELLA CO	PELLA CORPORATION			PROJECT # 414-0609	6090-	
102 MAII	102 MAIN STREET					
PELLA,	PELLA, IA 50219					
SERIES 350 4-1/2" VINYL CASEMENT WINDOW - IMPACT	CASEMENT WIT	NDOW - IMPACT				
GENERAL NOTES, INSTALLATION NOTES & TABLE OF CONTENTS	NOTES & TAE	ILE OF CONTENTS	ľ	REVISED PER MD	0,000/45	<u></u>
PREPARED BY:		DATE: 04/04/43	n	COMMENTS	C1 /07/6	
	KJA A	01/04/13				
	SCALE: N.T.S.	DRAWING NO: PELL0027	∢	0PDAIE 10 SIH EDIIION (2014) FBC	3/16/15	RJA A
PTC PRODUCT DESIGN GROUP, LLC Phone: 321,690,1788 PO BOX 520778 Febr: 321,690,1789 LONGWOOD, FLORIDA 32752 Femali inh@pileconu.com	REV: B	SHEET: 1 OF 13	REV	DESCRIPTION	DATE	BY

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No
Expiration Date

By
Miaml Dade Product Contral

Robert J. Amoruso, P.E.

Robert J. Amoruso, P.E. Florida P.E. No. 49752



			SERIES 350 CASEMENT				6 4 1 6 - 1 - 1		
Max. Size Tested	Design Pressure (PSF)	Glass Type Required (See Sheet 8)	Substrate	Installation Type	End Spacing All Corners	Quantity of Anchors at Head & Sill	Center to Center Spacing Head & Sill	Quantity of Anchors at Jambs	
35 1/2" x 71 1/2"	+70/-75	G3 and G4	Wood/Concrete/CMU/Metal *	Clip	4"	3	13.8"	7	10.6"
35 1/2" x 71 1/2"	+70/-75	G3 and G4	Wood/Concrete/CMU	Thru-Frame	4"	3	13.8"	8	9.10"
35 1/2" x 71 1/2"	+70/-75	G3 and G4	Metal *	Thru-Frame	4"	3	13.8"	6	12.7"
35 1/2" x 65 1/2"	+70/-72	G1	Wood/Metal *	Clip	4"	3	13.8"	6	11.5"
35 1/2" x 65 1/2"	+70/-72	G1	Concrete/CMU	Clip	4"	3	13.8"	7	9.6"
35 1/2" x 65 1/2"	+70/-72	G1	Woon/Concrete/CMU	Thru-Frame	4"	3	13.8"	7	9.6"
35 1/2" x 65 1/2"	+70/-72	G1	Metal *	Thru-Frame	4"	3	13.8"	6	11.5"
35 1/2" x 65 1/2"	+70/-75	G2	Wood/Metal *	Clip	4 ¹¹	3	13.8"	6	11.5"
35 1/2" x 65 1/2"	+70/-75	G2	Concrete/CMU	Clip	4"	3	13.8"	7	9.6"
35 1/2" x 65 1/2"	+70/-75	G2	Woon/Concrete/CMU	Thru-Frame	4"	3	13.8"	7	9.6"
35 1/2" x 65 1/2"	+70/-75	G2	Metal *	Thru-Frame	4"	3	13.8"	6	11.5"

^{*} METAL SUBSTRATES INCLUDE THE FOLLOWING:

(b) 1/8" MIN. THK. ASTM A-36 STEEL, 36 KSI YIELD STRENGTH STEEL OR BETTER

(c) 0.060" MIN. THK. 6063-T5 ALUMINUM OR BETTER

			INSTA	LLATION ANCHOR SO	HEDULE			
INSTALLATION TYPE	FASTENER HEAD TYPE	FASTENER SIZE	SUBSTRATE	MANUFACTURER AND/OR SPECIFICATION	EMBEDMENT (IN)	EDGE DISTANCE (IN)	ANCHOR CAPACITIES BASED ON	
				ITW TAPCONS (1)	1-1/2"	1-1/8"	MIN. 2000 PSI CONCRETE	
		t.	CONCRETE	ELCO ULTRACONS	ELCO ULTRACONS 1-3/8"		MIN. 2500 PSI CONCRETE	
INSTALLATION	PAN OR HEX			HILTI KWIK-CON II+	1-3/4"	1-1/8"	MIN. 2000 PSI CONCRETE	
CLIP OR THRU- FRAME	HEAD	3/16"	-	ITW TAPCONS (1)	1"	2"	STRENGTH CONFORMANCE	
				MASONRY (BLOCK/CMU)	ELCO ULTRACONS	1-1/4"	1"	TO ASTM C-90, MEDIUM WEIGHT, DENSITY > 117 PDF
			(222 217 2111)	HILTI KWIK-CON II+	1"	1-1/8"	Trustin, Denoiti > 117 1	
THRU-FRAME	PAN OR HEX HEAD	NO. 10	WOOD	ANSI B18.6.1 (WOOD SCREW) (2) (4)	1-3/8"	3/4" LATERAL (3)	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.55.	
INSTALLATION CLIP,	PAN OR HEX			ANS) B18.6.1 (WOOD SCREW) (2) (4) 3/4" LA		3/4" LATERAL 1/2" WITHDRAWAL	WOOD WITH A MINIMUM	
INSTALLATION CLIP - BENT	HEAD	NO. 10	WOOD	ASME B18.6.4 (TAPPING SCREW) (2) (4)	1-3/8"	(3)	SPECIFIC GRAVITY OF 0.55.	
INSTALLATION		20 GAUGE (0.0346" MIN. THK.) STEEL INCLUDING STEEL STUDS NO. 10 1/8" MIN. THK. A-36 STEEL OR BETTER		MIN. THK.) STEEL INCLUDING STEEL	ASME B18.6.4 (TAPPING SCREW) (4)	FULLY PENETRATE		ASTM A-653 STEEL, 33 KSI YIELD STRENGTH STEEL OR BETTER
CLIP, INSTALLATION CLIP - BENT OR	PAN OR HEX HEAD		1/8" MIN. THK. A-36	ASME B18.6.4 (TAPPING SCREW) (4)	SUBSTRATE WITH 3 THREADS PROTRUDING	5/16"	ASTM A-36 STEEL, 36 KSI YIELD STRENGTH STEEL OR BETTER	
THRU-FRAME			1/8" MIN. THK. 6063- TS ALUMINUM OR BETTER	ASME B18.6.4 (TAPPING SCREW) (4)	INTERNALLY	3/8"	6063-T5 ALUMINUM OR BETTER	

NOTES:

- 1) WHEN ITW TAPCONS ARE USED FOR CONCRETE/MASONRY INSTALLATION, THEY SHALL BE THE ADVANCED THREADFORM TECHNOLOGY TYPE.
- 2) FOR WOOD AND TAPPING SCREWS INSTALLATION INTO WOOD SUBSTRATE; IF SPLITTING IS A CONCERN, DRILL 7/64" PILOT HOLE FOR LATERAL APPLICATIONS AND 3/32" FOR WITHDRAWAL APPLICATIONS. SEE NOTE 3 BELOW FOR FURTHER DEFINITION.
- 3) LATERAL IS APPLICABLE TO INSTALLATION CLIP AND THRU-FRAME; WITHDRAWAL IS APPLICABLE TO INSTALLATION CLIP BENT.
- 4) WOOD AND TAPPING SCREWS SHALL CONFORM TO A GRADE 5 STRENGTH OF 92 KSI YIELD STRENGTH AND 120 KSI ULTIMATE STRENGTH.

NOTES:

- 1. INSTALLATION ANCHOR SCHEDULE
- 1.1. THIS TABLE LISTS APPROVED ANCHOR SPECIFICATIONS BASED ON THE INSTALLATION TYPE AND SUBSTRATE.
- 2. SERIES 350 CASEMENT WINDOW INSTALLATION REQUIREMENTS
- 2.1. THIS TABLE LISTS THE FOLLOWING INFORMATION.
- 2.1.1. DESIGN PRESSURE (PSF).
- 2.1.2. END DISTANCE (ED) OF ANCHORS AT FRAME ENDS AS DIMENSIONED ON ELEVATION DRAWINGS.
- 2.1.3. MAXIMUM O.C. (ON CENTER) SPACING FOR ANCHORS BETWEEN THE FRAME END ANCHORS DIMENSIONED ON ELEVATION DRAWINGS.
- 2.1.1.1. QUANTITY OF ANCHORS BASED ON MEETING THE O.C. SPACING REQUIREMENTS.
- 2.1.2. MAXIMUM WINDOW SIZES (W x H)
- ANCHOR QUANTITIES AND SPACINGS SHOWN ARE BASED ON ANCHOR SPACING USED IN TESTING OR REQUIRED BY LOADING AT DESIGN PRESSURE.
- 2.3. FOR WINDOW SIZES SMALLER THAN THOSE SHOWN, ANCHOR QUANTITIES CAN BE REDUCED WHILE MAINTAINING EDGE DISTANCE AND O.C. SPACING REQUIREMENTS.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No
Expiration Date

By
Miami Dade Product Control

PROJECT # 414-0609

UPDATE TO 5TH ED (2014) FBC

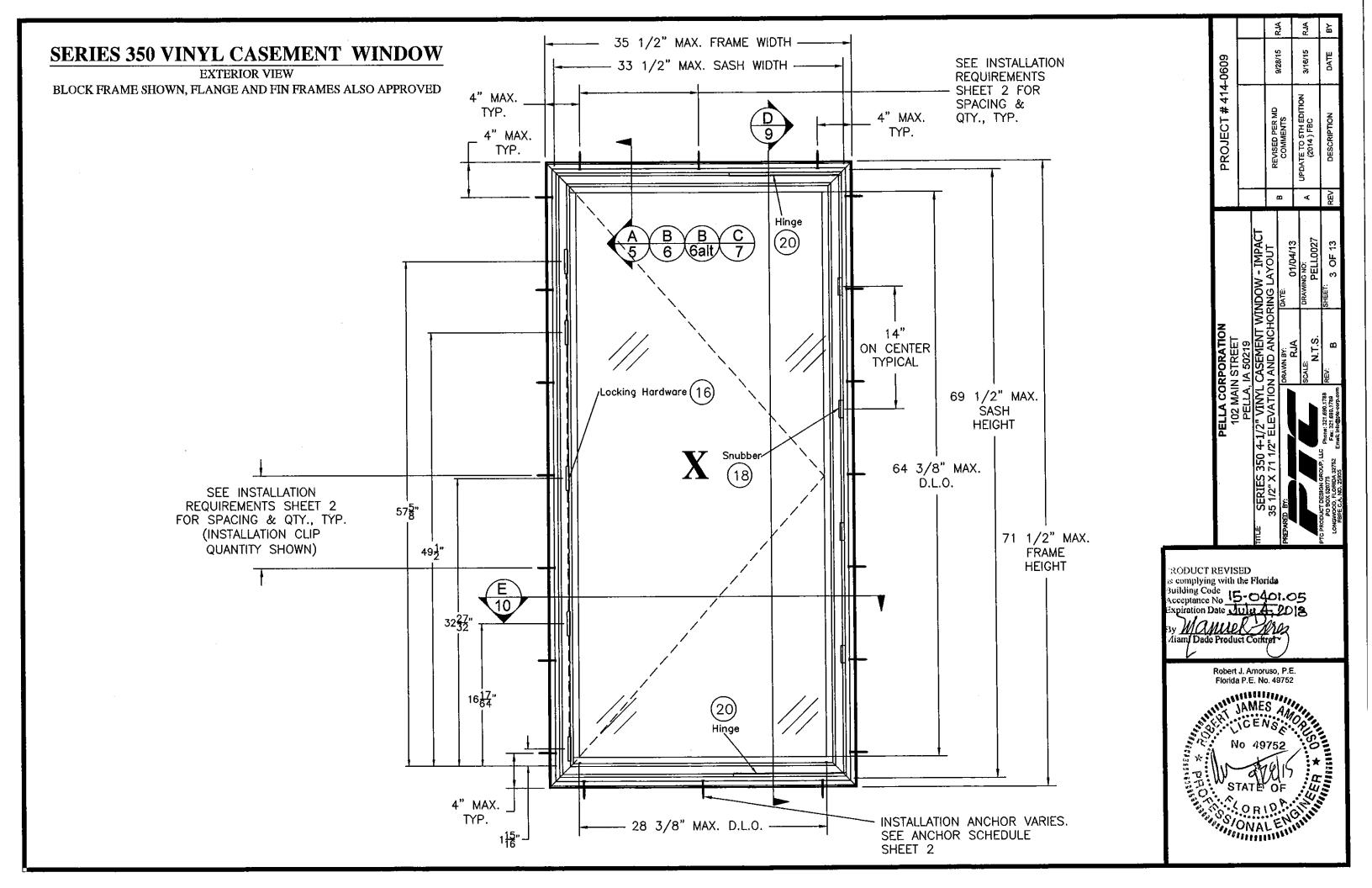
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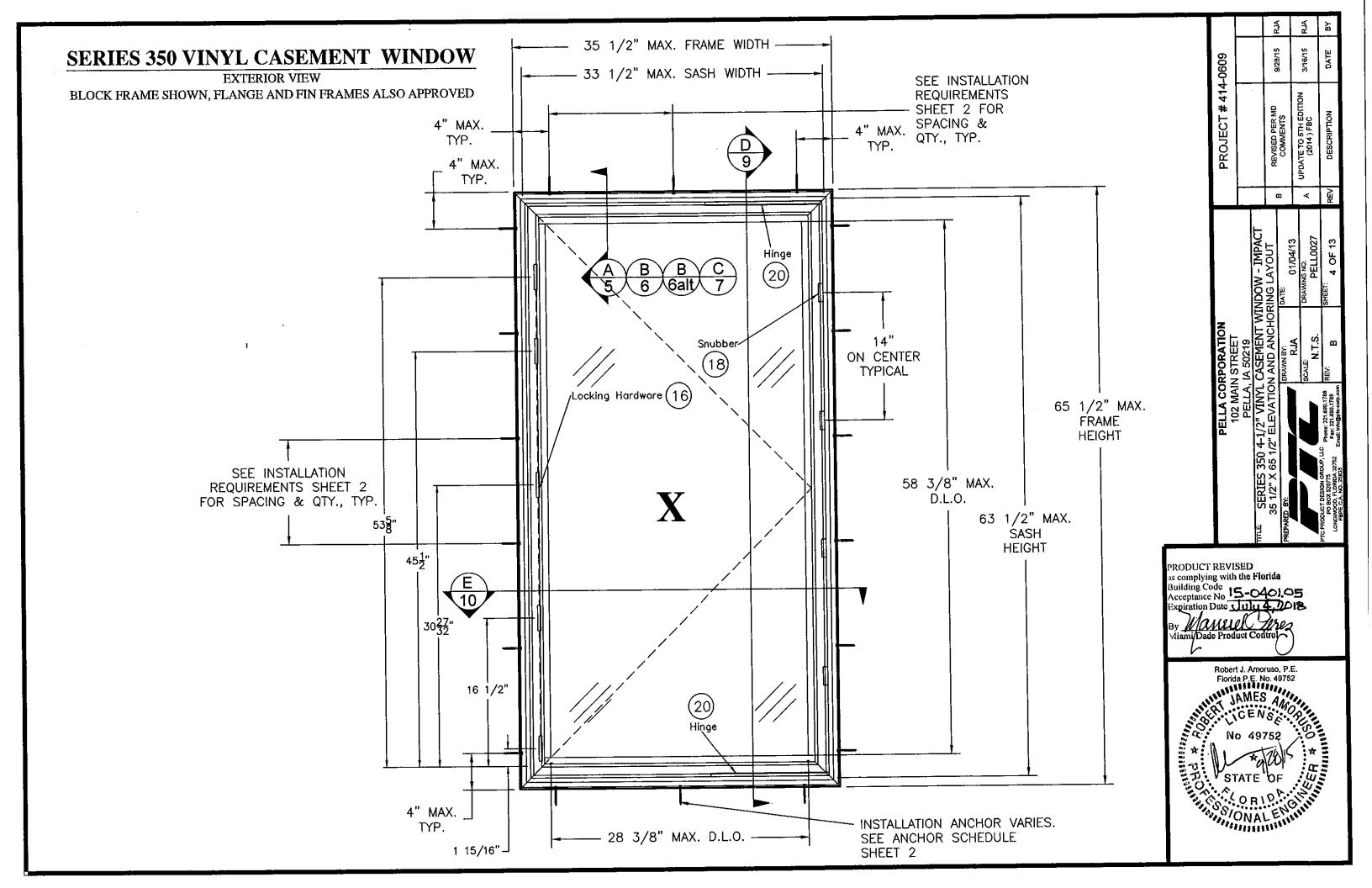
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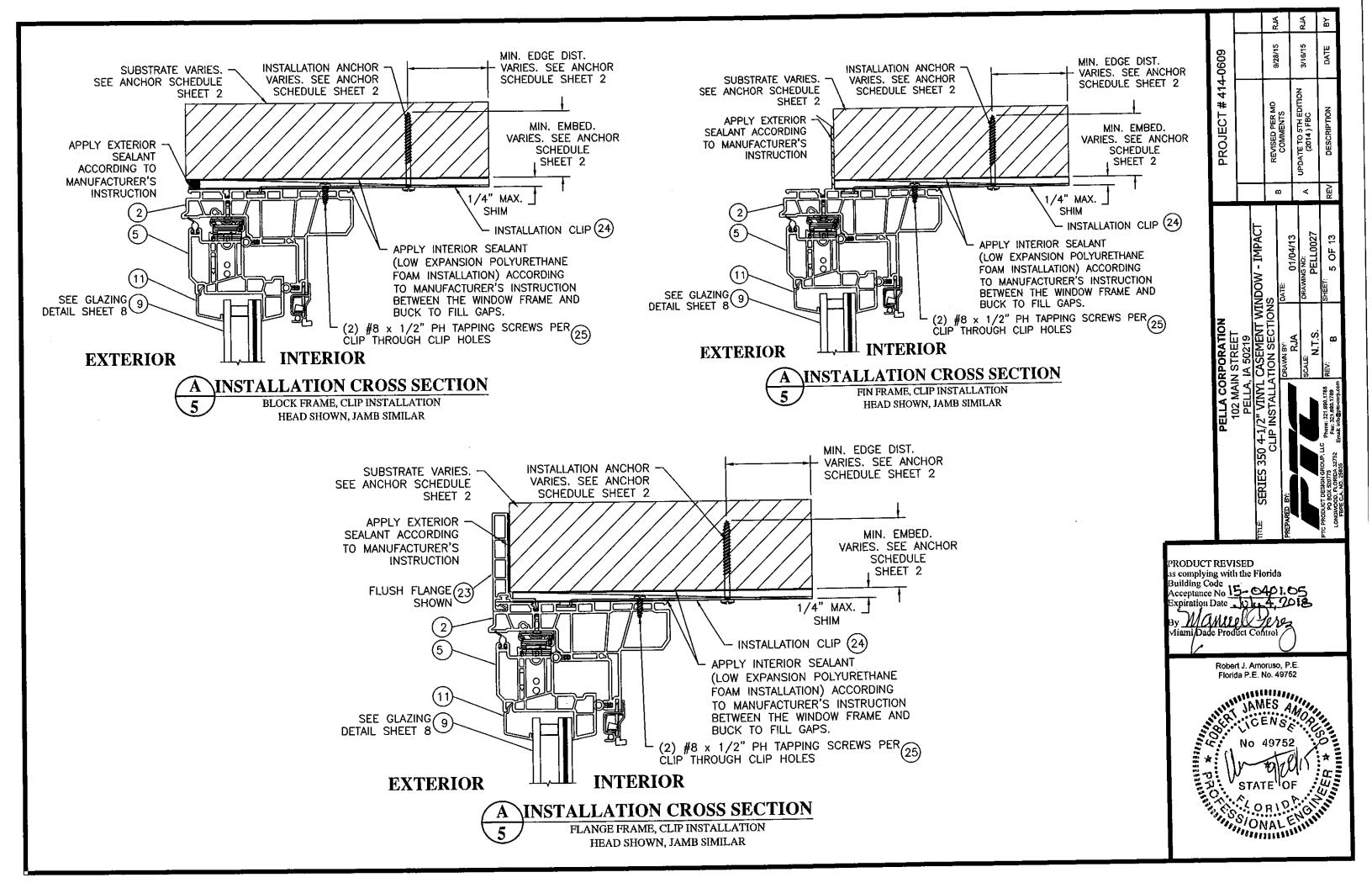
Robert J. Amoruso, P.E. Florida P.E. No. 49752

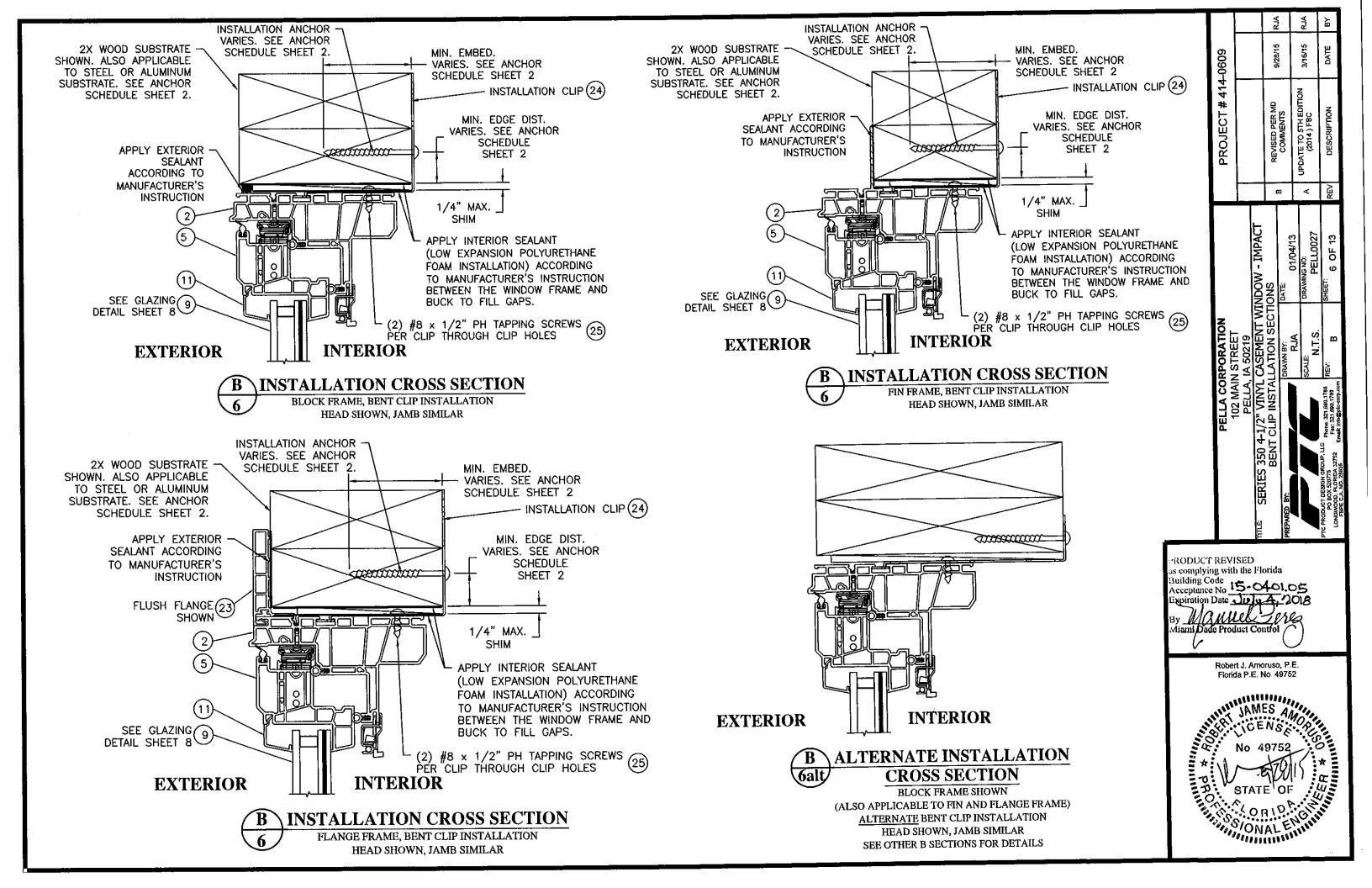


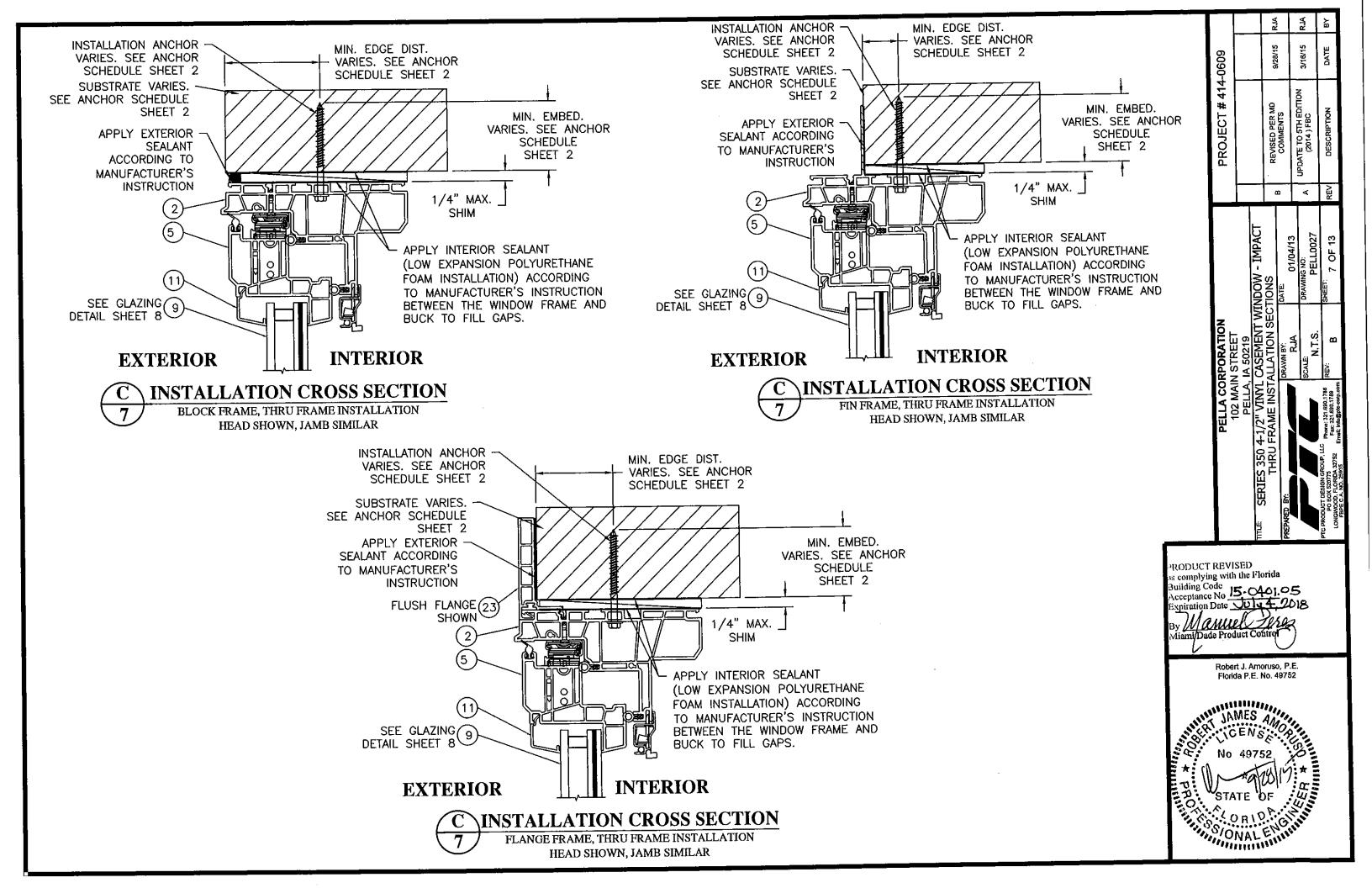
⁽a) 20 GAUGE (0.0346" MIN. THK.) STEEL INCLUDING STEEL STUDS, ASTM A-653 STEEL, 33 KSI YIELD STRENGTH STEEL OR BETTER





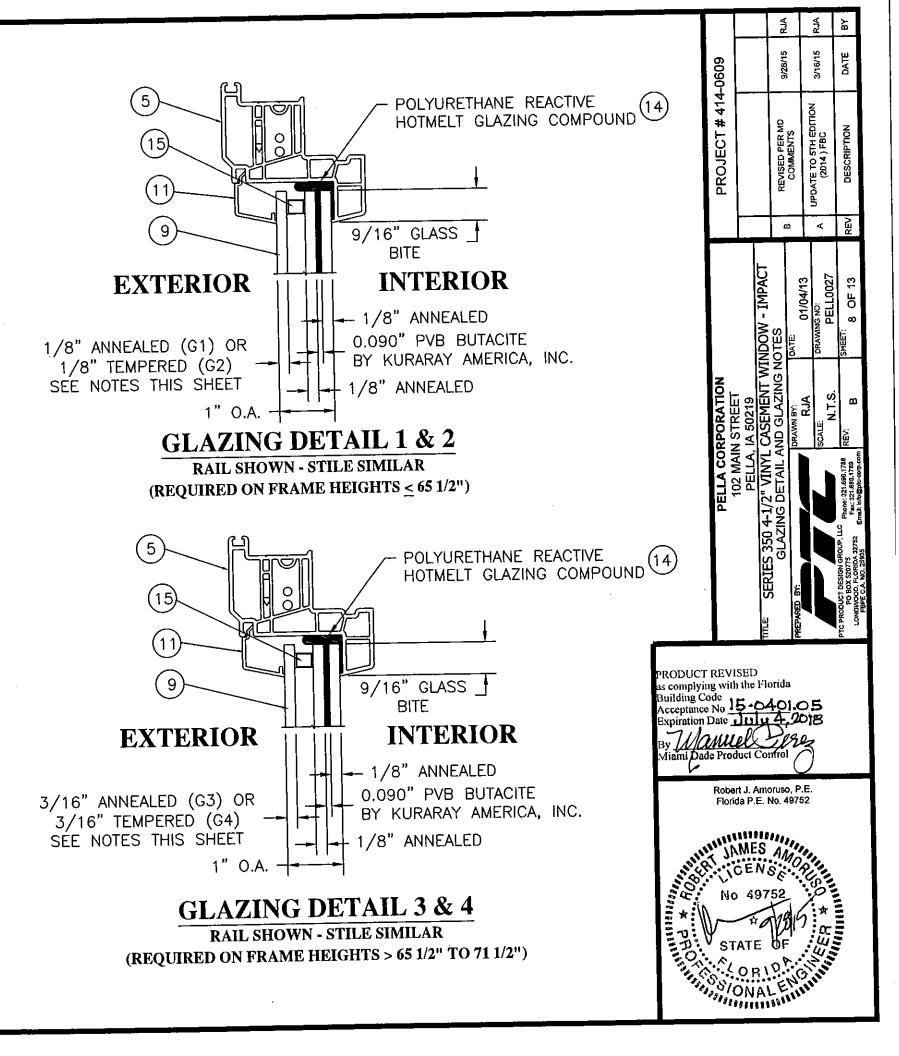






GLAZING DETAIL NOTES:

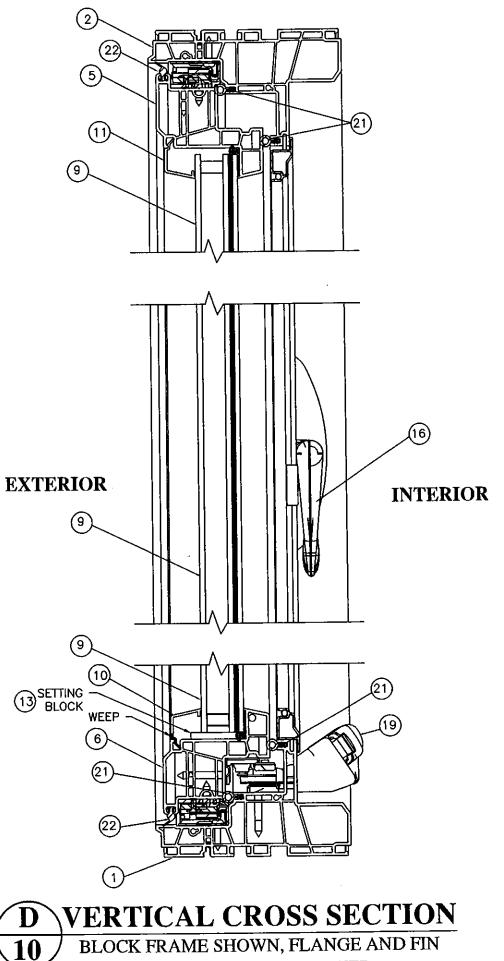
- 1. APPROVED GLAZING CONFIGURATIONS (SEE NOTES 3, 4 AND 5)
 - 1.1. G1 = 1" OA IGU LAMINATED INSULATED GLASS CONSISTING OF THE FOLLOWING FROM EXTERIOR: 1/8" ANNEALED 9/16" AIR SPACE 1/8" ANNEALED + 0.090" PVB BUTACITE BY KURARAY AMERICA, INC. + 1/8" ANNEALED. SEE NOTE 3 AND 5 BELOW.
- 1.2. G2 = 1" OA IGU LAMINATED INSULATED GLASS CONSISTING OF THE FOLLOWING FROM EXTERIOR: 1/8" TEMPERED 9/16" AIR SPACE 1/8" ANNEALED + 0.090" PVB BUTACITE BY KURARAY AMERICA, INC. + 1/8" ANNEALED. SEE NOTE 3 AND 4 BELOW.
- 1.3. G3 = 1" OA IGU LAMINATED INSULATED GLASS CONSISTING OF THE FOLLOWING FROM EXTERIOR: 3/16" ANNEALED 7/16" AIR SPACE 1/8" ANNEALED + 0.090" PVB BUTACITE BY KURARAY AMERICA, INC. + 1/8" ANNEALED. SEE NOTE 3 AND 5 BELOW.
- 1.4. G4 = 1" OA IGU LAMINATED INSULATED GLASS CONSISTING OF THE FOLLOWING FROM EXTERIOR: 3/16" TEMPERED 7/16" AIR SPACE 1/8" ANNEALED + 0.090" PVB BUTACITE BY KURARAY AMERICA, INC. + 1/8" ANNEALED. SEE NOTE 3 AND 4 BELOW.
- 2. SEE TABLE WINDOW SIZE VS. DESIGN PRESSURE ON SHEET 2 FOR APPROVED CONFIGURATIONS. ALL SIZES IN TABLE ARE BASED ON TESTED SIZES AND DO NOT EXCEED THE MAXIMUM WINDOW AREA TESTED.
- 3. GLAZING DETAILS G1, G2, G3 AND G4 MEET LARGE MISSILE IMPACT REQUIREMENTS AT HEIGHTS UP TO 30 FEET ABOVE GRADE AS REQUIRED BY THE 5TH EDITION (2014) FLORIDA BUILDING CODE.
- 4. GLAZING DETAILS G2 AND G4 MEET SMALL MISSILE IMPACT REQUIREMENTS AT HEIGHTS GREATER THAN 30 FEET ABOVE GRADE AS REQUIRED BY 5TH EDITION (2014) FLORIDA BUILDING CODE.
- 5. GLAZING DETAILS G1 AND G3 DO NOT MEET SMALL MISSILE IMPACT REQUIREMENTS AT HEIGHTS GREATER THAN 30 FEET ABOVE GRADE AS REQUIRED BY 5TH EDITION (2014) FLORIDA BUILDING CODE.
- 6. A MINIMUM OF TWO (2) NEOPRENE SETTING BLOCKS WITH 70 TO 90 SHORE A DUROMETER HARDNESS ARE REQUIRED AT BOTTOM (SILL) OF GLAZING LITES MORE THAN 3 FEET IN WIDTH IN ACCORDANCE WITH THE 5TH EDITION (2014) FLORIDA BUILDING CODE.



		BILL OF MATERIALS	
ITEM NO.	DESCRIPTION	MATERIAL/VENDOR	QTY
1	FRAME SILL	VINYL (PVC) BY QUANEX BUILDING PRODUCTS PER NOA NO. 12-1017.02	· 1
2	FRAME HEAD	VINYL (PVC) BY QUANEX BUILDING PRODUCTS PER NOA NO. 12-1017.02	1
3	FRAME LOCK JAMB, LEFT	VINYL (PVC) BY QUANEX BUILDING PRODUCTS PER NOA NO. 12-1017.02	1
4	FRAME LOCK JAMB, RIGHT	VINYL (PVC) BY QUANEX BUILDING PRODUCTS PER NOA NO. 12-1017.02	1
5	SASH TOP RAIL	VINYL (PVC) BY QUANEX BUILDING PRODUCTS PER NOA NO. 12-1017.02	1
6	SASH BOTTOM RAIL	VINYL (PVC) BY QUANEX BUILDING PRODUCTS PER NOA NO. 12-1017.02	1
7	SASH STILE, LOCK	VINYL (PVC) BY QUANEX BUILDING PRODUCTS PER NOA NO. 12-1017.02	1
8	SASH STILE, HINGE	VINYL (PVC) BY QUANEX BUILDING PRODUCTS PER NOA NO. 12-1017.02	1
9	GLAZING	SEE GLAZING DETAIL SHEET 8	1
10	1" GLAZING BEAD, BOTTOM RAIL, WITH WEEPS	VINYL (PVC) BY QUANEX BUILDING PRODUCTS PER NOA NO. 12-1017.02	1
11	1" GLAZING BEAD, TOP RAIL	VINYL (PVC) BY QUANEX BUILDING PRODUCTS PER NOA NO. 12-1017.02	1
12	1" GLAZING BEAD, STILE	VINYL (PVC) BY QUANEX BUILDING PRODUCTS PER NOA NO. 12-1017.02	2
13	SETTING BLOCK	PVC SEE SHEET 12	AS REQ'D
14	POLYURETHANE REACTIVE HOTMELT GLAZING COMPOUND	HENKEL SA	AS REQ'D
15	11.5MM (7/16") STAINLESS STEEL SPACER	CARDINAL GLASS	AS REQ'D
16	MAXIM MULTIPOINT LOCK HANDLE ASSEMBLY	TRUTH HARDWARE	1
17	MAXIM SELF-LOCATING MULTIPOINT TIE BAR ASSEMBLY	TRUTH HARDWARE	1
18	SNUBBERS - FRAME HINGE JAMB/SASH HINGE STILE	TRUTH HARDWARE DIE CAST ZINC COATED/STAINLESS STEEL	AS REQ'D
19	ENCORE ROTO OPERATOR W/CRANK	TRUTH HARDWARE	1
20	HD HINGE TRACK AND ARM. SCREW CONNECTED AT TOP AND BOTTOM SASH RAILS (NOT SHOWN IN SECTION VIEWS)	TRUTH HARDWARE	2
21	TPE BULB WEATHERSTRIP 6.9MM (0.27") DIA AWNING FRAME	INTEK PLASTICS	AS REQ'D
22	FOAM FILLED LEAF SEAL 13MM (0.50") LONG - SASH FRAME	AMESBURY INDUSTRIES	AS REQ'D
23	FLANGE (OPTIONAL)	VINYL (PVC) BY QUANEX BUILDING PRODUCTS PER NOA NO. 12-1017.02	4
	FLUSH FLANGE (SNAP-ON)	VINYL (PVC) BY QUANEX BUILDING PRODUCTS PER NOA NO. 12-1017.02	
	5/8" FLANGE (SNAP-ON)	VINYL (PVC) BY QUANEX BUILDING PRODUCTS PER NOA NO. 12-1017.02	
24	INSTALLATION CLIP	SEE SHEET 12	AS REQ'D
25	#8 x 1/2" TAPPING SCREW	AISI 1018 STEEL	AS REQ'D

			4		1	_	-	_	
	6090-			9/28/15			3/16/15	DATE	
	PROJECT # 414-0609			REVISED PER MD	COMMENTS	IAO(H) CHI CHI CHI	UPDATE TO STR EDITION (2014) FBC	DESCRIPTION	
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			DOW - IMPACT		DATE	01/04/13	DRAWING NO: PELL0027	SHEET: 9 OF 13	
	PELLA CORPORATION	102 MAIN STREET PFLLA: IA 50219	CASEMENT WIN	BILL OF MATERIALS		RJA	SCALE:	REV: B	
	PELLA CO	102 MAII PFILA	THE CENTER 250 4-1/2" VINY! CASEMENT WINDOW - IMPACT		PREPARED BY:			9	FBPE C.A. NO. 25835 Email: into@pto-corp.com
RODUCT s complying Conceptance Expiration By Miami Va	ng with ode e No <u>l</u> Date	h the 5- Jul Les	D.F. OLIV	lorio	ia LC		5 8 3		
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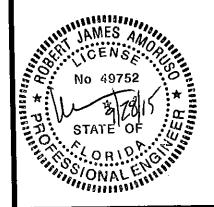
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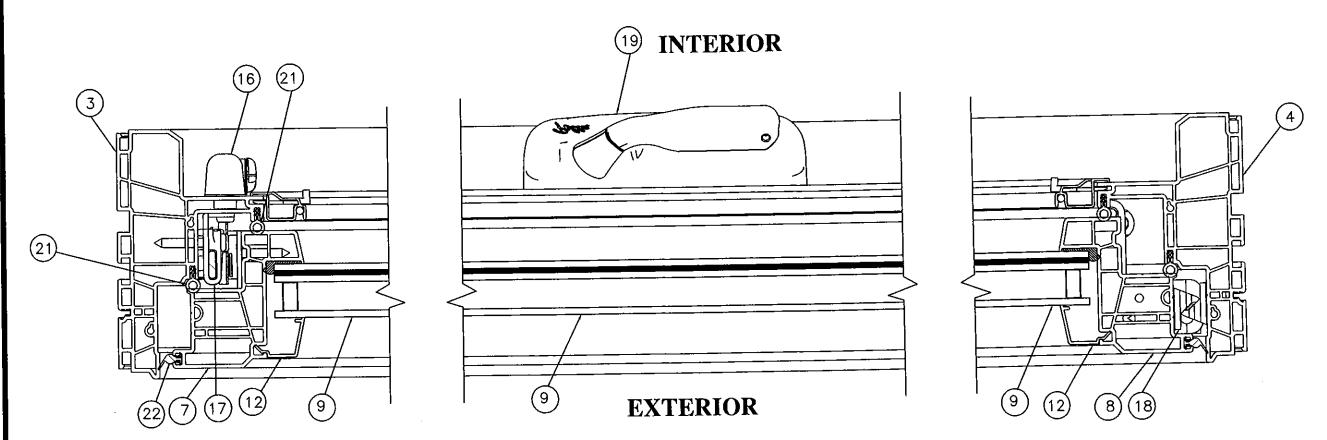
PROJECT # 414-0609 REVISED PER MD COMMENTS ∢ **20** LA, IA 50219 IYL CASEMENT WINDOW - IMPACT CROSS SECTION 01/04/13 10 OF 13

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0401.05
Expiration Date July 4, 2018
By Wayney Miami Dade Product Control

Robert J. Amoruso, P.E. Florida P.E. No. 49752



FRAMES ALSO APPROVED



E HORIZONTAL CROSS SECTION

11 BLOCK FRAME SHOWN, FLANGE AND FIN FRAMES
ALSO APPROVED

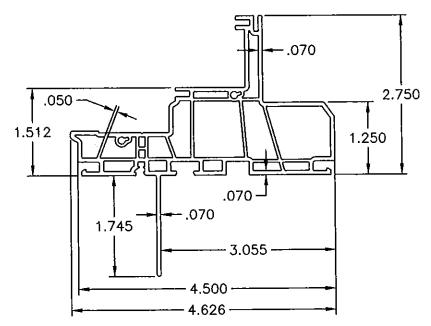
PELLA COI	PELLA CORPORATION		į	PROJECT # 414-0609	6090-	
102 MAIN	102 MAIN STREET		r			
PELLA.	PELLA, IA 50219					
THE CENTER SEN 4-1/2" VINVI CASEMENT WINDOW - IMPACT	CASEMENT WI	NDOW - IMPACT	_			
	ROSS SECTION	7	,	REVISED PER MD	9/28/15	₹ Ā
PREPARED BY:	DRAWN BY:	ij.	0	COMMENTS		
	RJA	01/04/13		NOITIOS PLE OT SERVICE		
	SCALE:	DRAWING NO: PFI 1 0027	4	(2014) FBC	3/16/15	χ. ¥
	N.1.5.		İ		1	7
Phone: 321.690.1786 Fax; 321.690.1789	REV:	SHEET: 11 OF 13	쭚	DESCRIPTION	DATE	۵
LONGWOOD, FLONIDA X/32 Email: info@ptc-corp.com FBPE C.A. NO. 25935			1			

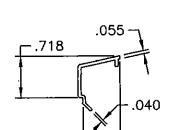
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-040.05
Expiration Date July 4, 2018
By Manuel July
Miami/Dade Product Control

Robert J. Amoruso, P.E.
Florida P.E. No. 49752

No. 49752

COMPONENT SECTIONS

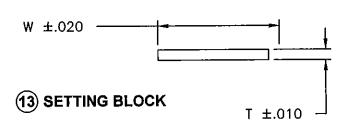




FIN FRAME/HEAD, SILL OR JAMB 1 2 3 4

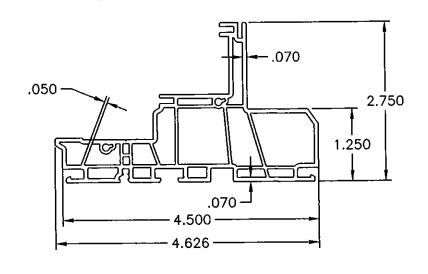
GLAZING BEAD

(10) (11) (12)

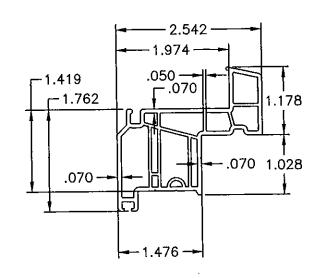


MATERIAL: PVC HARDNESS: SHORE A 80-90, SHORE D 75-87

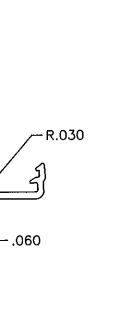
WIDTH AND THICKNESS VARY



BLOCK FRAME/HEAD, SILL OR JAMB 1 2 3 4



SASH TOP AND BOTTOM RAILS, STILES 5 6 7 8



23) 5/8" FLANGE (SNAP-ON)

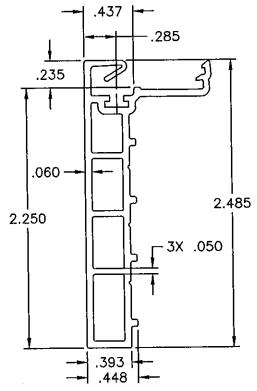
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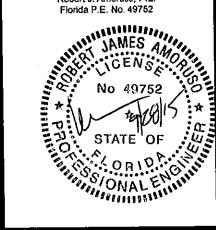
FLUSH FLANGE (SNAP-ON)

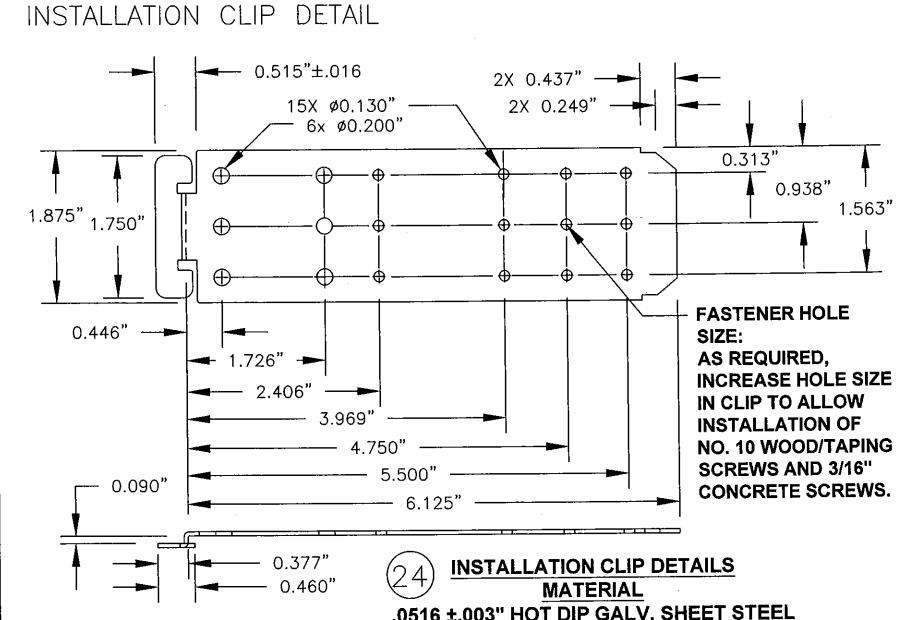
PELLA CORPORATION			-		-	-	<u>«</u>	
PELLA CORPORATION	6090-			31,00,0	9120715		3/16/15	DATE
PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219	PROJECT # 414			REVISED PER MD	COMMENTS		UPDATE 10 STH EDITION (2014) FBC	
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			NDOW - IMPACT		ŀ	01/04/13	DRAWING NO: PELL0027	
	RPORATION USTREET	IA 50219	CASEMENT WI	IT SECTIONS	DRAWN BY:	RJA	SCALE: N.T.S.	
	PELLA CO	PELLA,	1	COMPONEN	PREPARED BY:			Phone: 321.690,1788 Fax: 321.690,1789 inelt; info@pto-com.com

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No
Expiration Date

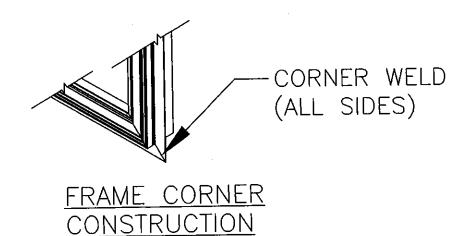
By
Miami Dade Product Control

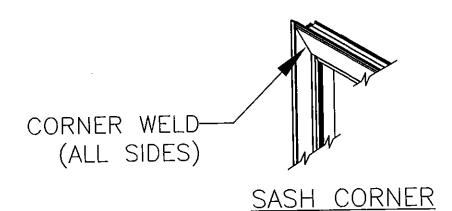
Robert J. Amoruso, P.E.
Florida P.E. No. 49752





CORNER CONSTRUCTION





CONSTRUCTION

PROJECT # 414-0609 UPDATE TO STH EDITION (2014) FBC œ ⋖

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Acceptance No 15-0401.05
Expiration Date Uph 4, 2018

Robert J. Amoruso, P.E.

Florida P.E. No. 49752

.0516 ±.003" HOT DIP GALV. SHEET STEEL **ROCKWELL "B" 65 MAX.**

ULTIMATE STRENGTH = 55 KSI MIN. YIELD STRENGTH = 30 KSI MIN.